DATE

APR 2 1982

UBJECT

Lead Mine Tailings Workshop

FROM

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J.

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Site Bal ver Mine ID# 126899 Creat 10 | Cilie 4-2-82 Conf. per acres.

Attached is Bill's memo on some of the substantive items discussed at the latest workshop

Bill is the attorney of record on matters involving the Lead Mine Tailings pile near Des Loge, Missouri, and as such has compiled an extensive amount of information on this pile. As attorney of record, it was appropriate for him to attend this meeting and update his information on the current status of activities at this site.

I would suggest we discuss our concerns about the <u>December 14 memo</u> from Karen Flourney to Robert Morby on the Covenant Not to Sue Apparently, the Corps will be making some pitch for superfund money which Morby should be made aware of I would certainly like to be made aware of their anticipated dealings with the state on this matter prior to action

cc David R Tripp, w/attachments

40111142

SUPERFUND RECORDS

. DATE 3/30/82

овист Big River Lead Studies Workship II - Trip Report

Attorney, CNSL-LEGI

Terry J Satterled Chief, CNSL-LEGI

The workshop was held at the University of Mis our into lumb or Misch 25 1982. In we a copy of the program and a chromology of time and federal governmental involvement prepared by MDPR as a conduct

St Joe Minerals hi timished repairing the two big gullies from which the majority of the tailings were discharged in the 1977 washou. Instead of tilling the gullie with coarse tailings as originally required by the 'Covenant Not to Sue', the Covenant was amended, permitting the note wild dam made of the coarse tailings across the mouths of the gip. A required by the Covenant, St. Joe built been a nound the perimeters of the gullies to keep rainfall on other parts of the pile from a thing in the gullies.

While this leaves the gullies essentially unfilled with tailings the state apparently believes the restoration is satisfactory. John Curter from St. Joe said however, that they 'want the landfill authority to but tires and any type of trash that will not cause problems and he said domestic wastes causing leachate into the river. It was not clear whether his concern was for the leachate only or for the lead which MDNR consulting upon Novak's lanuary 1980 report suggests the leachate can so completely mobilize.

Bobby Wixson and Nord Gile. Rolla professors who consult for the induct, acknowledged that tours really is lead in the edible tique or Big River fish, but you would have to eat two or three pounds of it i day for a long time to show any clinical iffects. (It note, show that discuss had said the December 19.0 load Work hop that he had found leng in the importance of gill, skin and scale, and in fith into time that to it is not in edible time.) Chins schmidt of the Fith and willing invice printed out ho ever that to be fair about the furtion not can increase in lead in their plood. (I earlier had a ked his our i Department of the Indian in the Big River area that he talked about at the inecting list year and he said no.)

Chris Schmidt of the FWS Columbia National Fitheric Fesearchicable parter or the studies he did for the Corps of Engineers on the agricultural of the tailings for the COEs proposed Piney Ford kes every to a treat the Big River. Schmidt said his findings in retrospect should be been obvious to him — that the weathering of the tailings has substantially and significantly changed their chemical characteristics. Schmidt says the percentage of mineral-bound lead has decreased and the carbonate aron, and magnesium bound lead forms are now the predominant ones. The forms make the lead much more 'available' in the event of phor redox changes. This has useful amportance for the proposed reservoir, where such conditions in the hypolimnion could cause the lead to go into solution (and dam normally discharge water taken from deep in the reservoir)

Make Klosterman from the St. Louis District Corps of Engineers said that in light of the Schmidt findings—they were recommending that the Piney Eurd Reservoir plan be abandoned—They said, however, that they had developed a plan to contain the various tailings piles in the area, and would recommend to their Division office that it be implemented. The plan will cost \$75 million -- \$20 million to fix up 17 bailte sites and \$65 million for 8 lead sites—including Desloge—Work would take poore 5 years and result in containment of about 100% of the tailings during dry weather and 90% of the tailings during wet weather. Klosterman said the wish't clear that so doing would permit them to build the reservoir liter though

While it's good that the Corps has found something benight to do. I minot sure their plan his been completely thought out. Barring it geologic cit clysm, the tailing men't going to wash into the from from even the logic ite in via quantities. A major problem however may remither times which have a pecually large percentage of potentially 'ivailable" lead. Kevegetation would help stop this problim (ore color slide showed a real dust cloud over the river) but it possible that decaying vegetation could create condition. Which would dissolve the last allowing it to leach to the river. Larry Ceorge of the Bircai of Lines was looking into that problem, but he told karen Flourne, in January I that he may rim out of money before his study is done. (larry via at the meeting but didn't male a presentation.)

The Corps' plan do not seem to address what looks to me late the major documented problem with the pile - the existence of a growing sanitary landfill in it. The leachate from the landfill if it is similar to the organic acid EDTA as assumed by John Novak will - as Novak's tests sho - dissolve and mobilize virtually ALL the lead in the tailings. My note show that the Missouri Department of Conservation's Dr. Whitley told me over lunch at the meeting last year that Novak thinks the landfill is '1000 times more dangerous than the tailings by themselves.' The landfill operators, said Whitley, plan to keep using the pile until there's no more room'

Neither the pile nor the landfill has been listed as an uncontrolled site or Superfund site. I imagine that if the Corp goes after Superfund money to implement its plan a number of serious questions will be asked maybe by Congress, about the Covenant Not to Sue and LPA's decision not to list these sites (especially in view of the big deal we've made of Tar Creek)

I'm glad I'm an Indian